

6957

CATALOG-AT-652

Manufacturers of

every type of

Floor Grating

Safety Step

Floor Armor

ALL-WELD

**PRESSURE
LOCKED**

RIVETED

BORDEN

BORDEN METAL PRODUCTS CO., ELIZABETH, N. J.

**SOUTHERN DIVISION — LEEDS, ALA.
MAIN PLANT — UNION, N. J.**

ALL-WELD

**PRESSURE
LOCKED**

RIVETED

BORDEN MANUFACTURES EVERY TYPE FLOOR GRATING GUARANTEEING

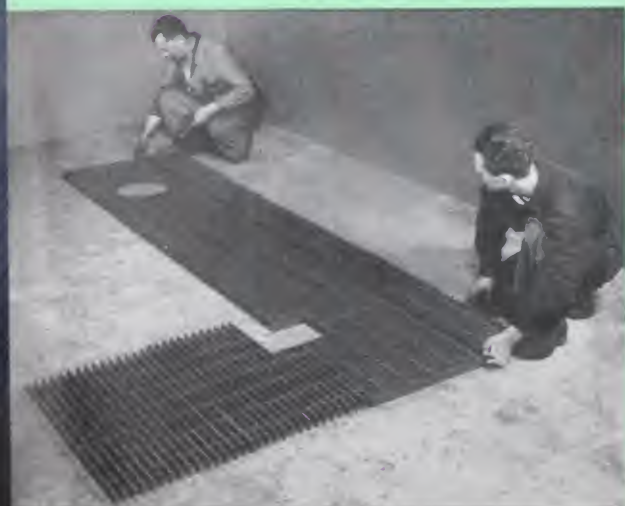
THESE IMPORTANT FEATURES:

- 1 level even surfaces**
- 2 freedom from warp or camber**
- 3 symmetrical appearance**
- 4 custom made to fit**

BORDEN FREE PLANNING AND CHECKING SERVICE

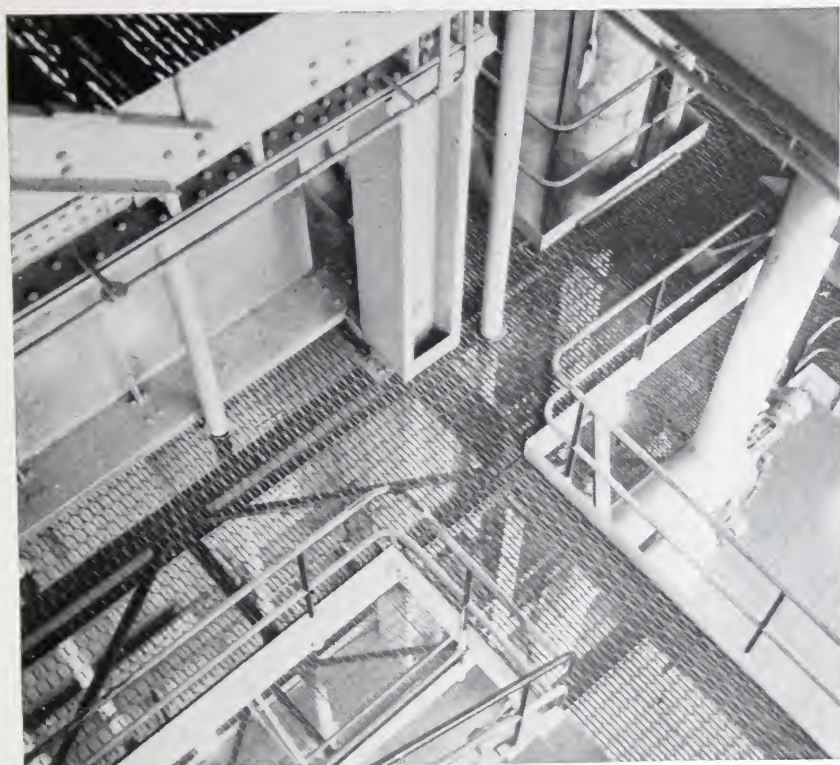
In filling your order, Borden follows these steps to insure correct dimensions, fit and placement:

- 1** A shop drawing of the job is submitted to the customer for approval, when necessary. This plan shows the size and shape of the grating area—how grating clears all obstructions.
- 2** Each finished panel is carefully checked for accuracy of dimensions.
- 3** Each panel is plainly marked with its number to insure quick, easy installation.
- 4** The entire platform is laid out on our shop floor. Overall dimensions and obstruction openings are checked against shop drawings.
- 5** Erection diagram showing panel mark numbers is supplied for field installation.



Shop Layout Prior To Installation

BORDEN manufactures every type floor grating



riveted

Most substantial and oldest design of grating made, Borden's riveted design permits perfect distribution of loads. It is excellent for rolling loads and walking. It is particularly recommended for power houses, refineries, subways. Made on the truss principle, Borden Riveted Gratings are hydraulically power-forged for strength and durability.

Floor gratings and safety steps by Borden insure easy working, walking, and wheeling surfaces. Perfect, normal traffic at all times, because Borden Metal Products Company's precision manufacturing process require finest materials and workmanship.



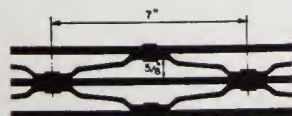
TYPE K
(standard)

All purpose floor grating.
Ornamental design at no extra cost.



TYPE A
(standard)

All purpose floor grating.



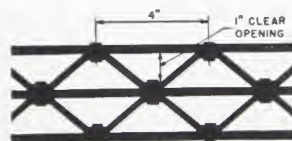
TYPE J
(special)

Ornamental design with close bar centers. Excellent for pedestrian traffic.



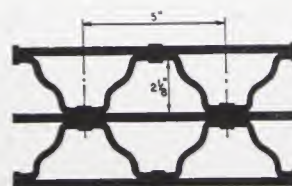
TYPE H
(special)

Close bar centers for conditions where small opening is required.



TYPE G
(special)

With closer rivet centers for conditions where more steel area is required.

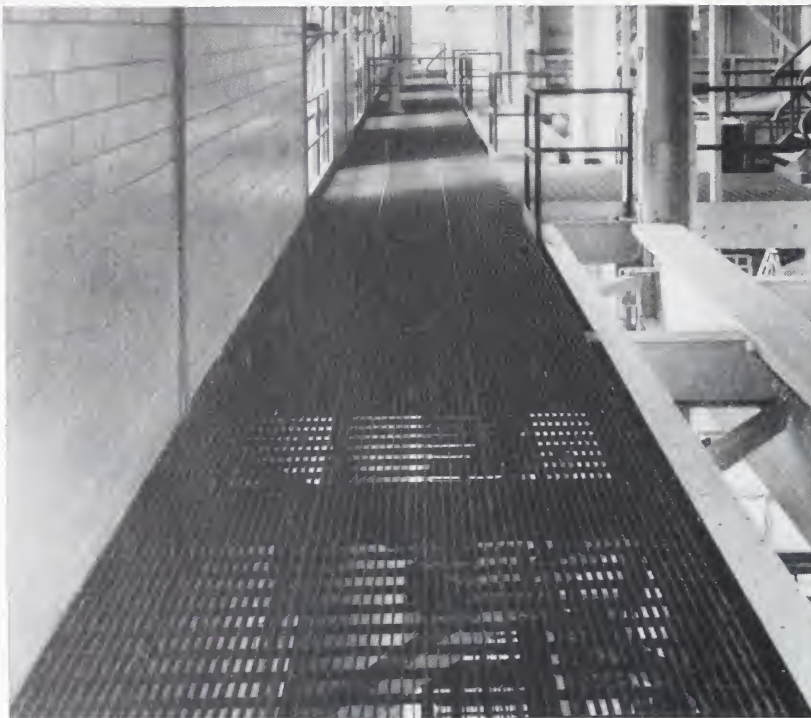


TYPE R/W
(special)

Road-way design for trenches, bridges or roads. For vehicular traffic.

BORDEN METAL PRODUCTS CO.
ELIZABETH, N. J.

BORDEN manufactures every type of floor grating . . .



pressure locked

Borden Cold Forged Rectangular Floor Gratings are neat, clean, durable and easy to paint and maintain. The pressure-locked type permits maximum passage of light, heat and air. It is especially desirable in power plants, boiler rooms and all dry areas. Deep cross bars increase lateral support.

The perfect gratings produced by Borden stay that way. Uniformity of materials and design throughout assure trouble-free service for the life of the gratings. Factory tested and inspected, Borden gratings have no imperfections or irregularities of construction to cause warping or camber once in use, when properly installed and selected to suit the conditions of the application.



TYPE B
(standard)

Approved for all general purposes.



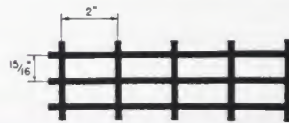
TYPE D
(special)

Close bearing bars. Best for heavy public traffic, or where smaller openings are required.



TYPE F
(special)

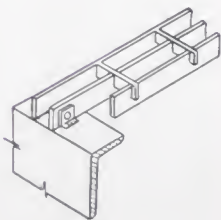
Same as type B but close cross bars for conditions where more steel area is required.



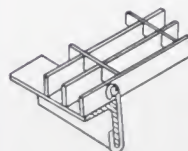
TYPE DF
(special)

With closer bar and bearing bars. For conditions requiring greatly reduced net opening.

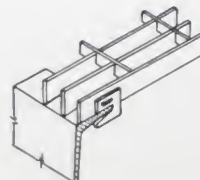
standard grating fasteners for ALL-WELD, RIVETED, PRESSURE-LOCKED



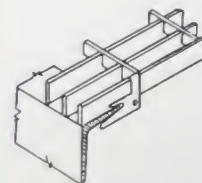
TYPE F-3 Furnished only when specified. Used extensively for ships.



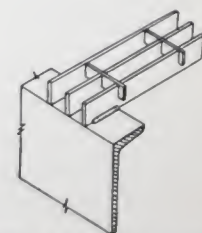
TYPE F-1 Furnished only if specified or where conditions do not permit use of F-6 Fastener.



TYPE F-2 Bolts to grating and clips flange of supporting steel.

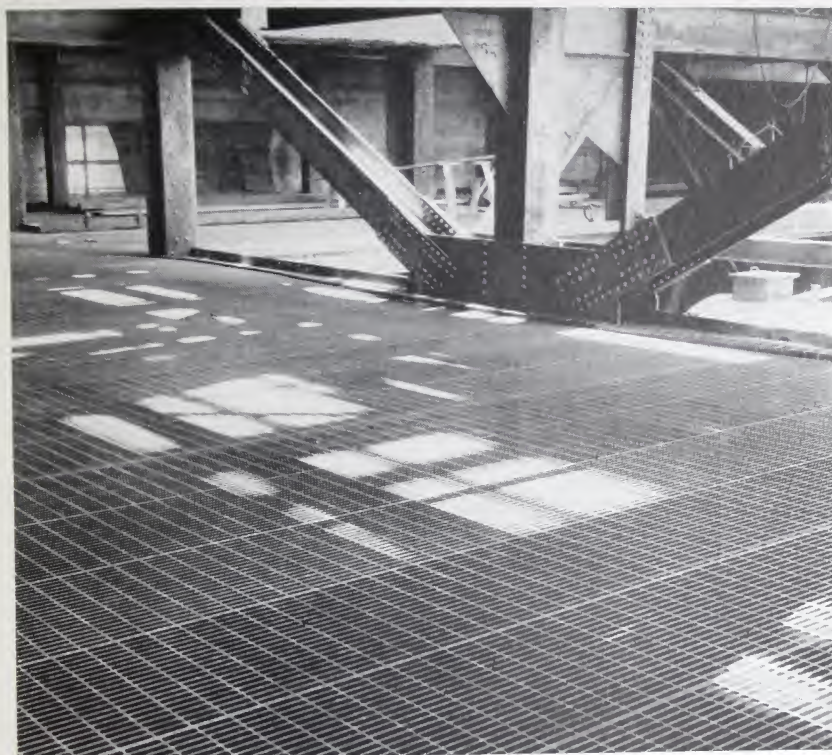


TYPE F-6 Furnished in all cases where possible or unless otherwise specified by customer.



TYPE F-4 Most positive method, grating welded to supporting steel.

... so when you need floor gratings check **BORDEN**



all-weld

The best type for use where floors are subject to extreme corrosion or moisture—chemical plants, breweries and other process industries. There are no cracks, open joints, or holes in bars.

Another product of Borden's precision manufacturing policy is the graceful and symmetrical appearance of the gratings. They are available in many classic and ornamental patterns all of which are designed for strength, uniform wear and practical, attractive appearance.

Borden floor gratings are built to suit the customer's plans. Finished panels as well as the entire platform are carefully checked for accuracy of dimensions and clearance of obstructions. Borden products are sold on the basis of guaranteed satisfaction.



TYPE W/B
(standard)

Approved for all general purposes.



TYPE W/D
(special)

Close bearing bars. Best for heavy public traffic or where smaller openings are required.



TYPE W/F
(special)

Same as type W/B but close cross bars for conditions where more steel area is required.



Type W/DF
(special)

With closer cross bar and bearing bars. For conditions requiring greatly reduced net opening.

When Specifying or Ordering

In Specifying—

Give type (letter), size (number 1 to 11). Add "as made by BORDEN METAL PRODUCTS CO., Elizabeth, N. J.," If you submit floor plans or state area openings, it is not necessary to select sizes of grating panels. Our engineering department will lay out your complete grating floor from your plans or sketches. Erection diagrams are furnished by Borden when necessary for quick and economical installation. Borden Gratings are furnished with standard fasteners when required.

How To Order Borden Floor Gratings—

1. State TYPE of Borden Floor Gratings that meets your

requirements. (Type is designated by letter as shown on pages 3, 4, & 5.)

2. Then refer to the Safe Load Table (page 7) and select SIZE of grating for span and load required. (Size is designated by number from 1 to 11.)

3. State direction of bearing bars (span) if no drawings are available.

4. State if clearance is to be allowed (only if areas are given).

5. Give size and location of supports (only if fasteners are required).

6. State finish—painted or galvanized.

7. Give shipping and marking instructions.

BORDEN METAL PRODUCTS CO.

BORDEN Steel Safety Steps

Available with any type grating shown on pages 3, 4, & 5, Borden Safety Steps are made in four nosing styles:

1. CHECKERED PLATE—suresight on stairs and safety underfoot. 2. BAR DELUXE—added series of straight bars on edges for double strength, self-draining.
3. CAST ABRASIVE—special angle backing for rigidity and strength. 4. SINGLE BAR—heavy bar nosing made with $\frac{1}{4}$ " thick nosing bar for added strength at point of impact.

Made to order for any stair or tread opening, Borden Safety Steps are furnished complete with punch and slotted carrier angles attached, ready to bolt to stringers.

WHEN SPECIFYING OR ORDERING, DESIGNATE:

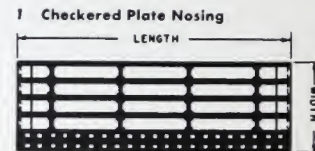
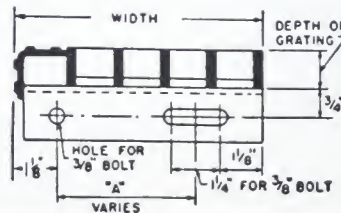
1. Type of grating (letter) and size (number)
2. Style of nosing
3. Width and length of step (see table for width)
4. Finish (painted or galvanized)
5. Made by Borden Metal Products Co., Elizabeth, N. J.

table of tread widths

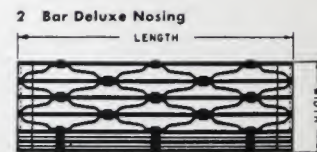
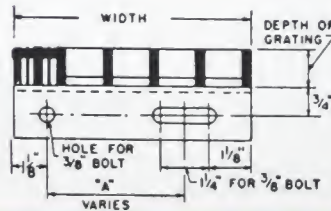
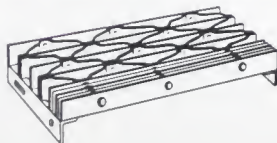
For Deluxe Bar, Checkered Plate and Abrasive Nosings

| type A or K | | | | type B & W/B | | | |
|------------------------------|-----------------|-------------------------------|------------------|------------------------------|------------------|-------------------------------|------------------|
| $\frac{1}{8}$ " Bearing Bars | | $\frac{3}{16}$ " Bearing Bars | | $\frac{1}{8}$ " Bearing Bars | | $\frac{3}{16}$ " Bearing Bars | |
| Width | Dim. A | Width | Dim. A | Width | Dim. A | Width | Dim. A |
| 6 $\frac{1}{2}$ | 3 $\frac{5}{8}$ | 6 $\frac{7}{8}$ | 4 | 7 $\frac{1}{2}$ | 4 $\frac{5}{8}$ | 7 $\frac{1}{2}$ | 4 $\frac{5}{8}$ |
| 7 $\frac{3}{4}$ | 4 $\frac{7}{8}$ | 8 $\frac{1}{8}$ | 5 $\frac{1}{4}$ | 8 $\frac{5}{8}$ | 5 $\frac{3}{4}$ | 8 $\frac{3}{4}$ | 5 $\frac{7}{8}$ |
| 9 | 6 $\frac{1}{8}$ | 9 $\frac{1}{2}$ | 6 $\frac{5}{8}$ | 9 $\frac{7}{8}$ | 7 | 9 $\frac{7}{8}$ | 7 |
| 10 $\frac{1}{4}$ | 7 $\frac{3}{8}$ | 10 $\frac{3}{4}$ | 7 $\frac{7}{8}$ | 11 | 8 $\frac{1}{8}$ | 11 $\frac{1}{8}$ | 8 $\frac{1}{4}$ |
| 11 $\frac{1}{2}$ | 8 $\frac{5}{8}$ | 12 $\frac{1}{8}$ | 9 $\frac{1}{4}$ | 12 $\frac{1}{4}$ | 9 $\frac{3}{8}$ | 12 $\frac{1}{4}$ | 9 $\frac{3}{8}$ |
| 12 $\frac{3}{4}$ | 9 $\frac{7}{8}$ | 13 $\frac{3}{8}$ | 10 $\frac{1}{2}$ | 13 $\frac{3}{8}$ | 10 $\frac{1}{2}$ | 13 $\frac{1}{2}$ | 10 $\frac{5}{8}$ |

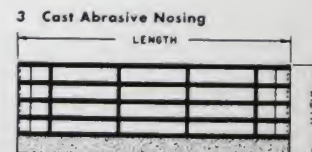
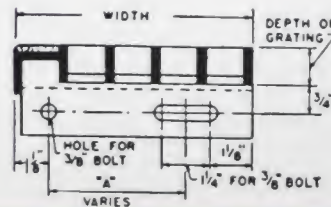
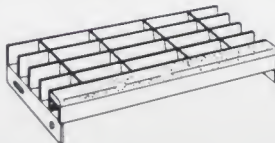
1—Checkered Plate Nosing



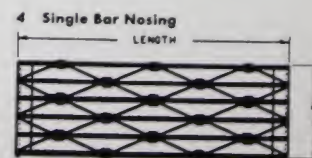
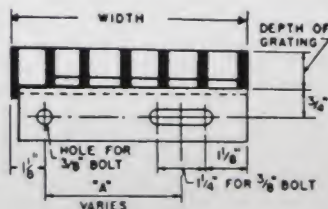
2—Bar Deluxe Nosing



3—Cast Abrasive Nosing



4—Single Bar Nosing



Safe Loads (adopted by U. S. Government, Federal Specification RR-G—661a, Jan. 30, 1936)
For Types A and K Riveted & B Rectangular

| size no. | bearing bar size, inches (all types) | type A or K (riveted) | | type B & W/B* (rectangular) | | load and deflection | span in feet and inches | | | | | | | | | | | | | |
|----------|--------------------------------------|-----------------------|-----------------------|-----------------------------|---------------------|---------------------|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|-------|-------|-------|--|
| | | crimp bar size | wgt., lb. per sq. ft. | cross bar size | wgt., lb. persq.ft. | | 2-0 | 2-6 | 3-0 | 3-6 | 4-0 | 4-6 | 5-0 | 5-6 | 6-0 | 6-6 | 7-0 | 8-0 | 9-0 | |
| | | | | | | | | | | | | | | | | | | | | |
| 1 | 3/4 x 1/8 | 3/4 x 1/8 | 6.5 | 5/8 x 1/8 | 4.2 | U | .330 | .222 | .143 | | | | | | | | | | | |
| | | | | | | D | .085 | .134 | .192 | | | | | | | | | | | |
| | | | | | | C | .330 | .265 | .215 | | | | | | | | | | | |
| 2 | 3/4 x 3/16 | 3/4 x 1/8 | 8.0 | 5/8 x 1/8 | 5.9 | U | .500 | .320 | .217 | | | | | | | | | | | |
| | | | | | | D | .085 | .134 | .192 | | | | | | | | | | | |
| | | | | | | C | .500 | .400 | .325 | | | | | | | | | | | |
| 3 | 1 x 1/8 | 3/4 x 1/8 | 7.5 | 3/4 x 1/8 | 5.5 | U | .600 | .384 | .267 | .188 | .150 | | | | | Spans to right of heavy line not recommended | | | | |
| | | | | | | D | .064 | .099 | .143 | .195 | .256 | | | | | | | | | |
| | | | | | | C | .600 | .480 | .400 | .330 | .300 | | | | | | | | | |
| 4 | 1 x 3/16 | 3/4 x 1/8 | 9.0 | 3/4 x 1/8 | 7.8 | U | .900 | .580 | .400 | .286 | .225 | | | | | | | | | |
| | | | | | | D | .064 | .099 | .143 | .195 | .256 | | | | | | | | | |
| | | | | | | C | .900 | .725 | .600 | .500 | .450 | | | | | | | | | |
| 5 | 1 1/4 x 1/8 | 3/4 x 1/8 | 8.5 | 3/4 x 1/8 | 6.9 | U | .950 | .600 | .420 | .303 | .232 | .184 | .146 | .120 | | | | | | |
| | | | | | | D | .051 | .081 | .115 | .157 | .205 | .259 | .321 | .389 | | | | | | |
| | | | | | | C | .950 | .750 | .630 | .530 | .465 | .415 | .365 | .330 | | | | | | |
| 6 | 1 1/4 x 3/16 | 3/4 x 1/8 | 10.5 | 3/4 x 1/8 | 9.4 | U | .1425 | .900 | .633 | .457 | .350 | .278 | .220 | .182 | | | | | | |
| | | | | | | D | .051 | .081 | .115 | .157 | .205 | .259 | .321 | .389 | | | | | | |
| | | | | | | C | .1425 | .1125 | .950 | .800 | .700 | .625 | .550 | .500 | | | | | | |
| 7 | 1 1/2 x 1/8 | 3/4 x 1/8 | 9.5 | 1 x 1/8 | 8.1 | U | .1365 | .880 | .610 | .445 | .340 | .266 | .220 | .182 | .150 | .128 | .110 | | | |
| | | | | | | D | .043 | .067 | .094 | .131 | .166 | .216 | .267 | .324 | .385 | .440 | .522 | | | |
| | | | | | | C | .1365 | .1100 | .915 | .785 | .680 | .600 | .550 | .500 | .450 | .415 | .385 | | | |
| 8 | 1 1/2 x 3/16 | 3/4 x 1/8 | 12.0 | 1 x 1/8 | 11.6 | U | .2050 | .1320 | .917 | .672 | .512 | .400 | .330 | .273 | .225 | .192 | .164 | | | |
| | | | | | | D | .043 | .067 | .094 | .131 | .166 | .216 | .267 | .324 | .385 | .440 | .522 | | | |
| | | | | | | C | .2050 | .1650 | .1375 | .1175 | .1025 | .900 | .825 | .750 | .675 | .625 | .575 | | | |
| 9 | 1 3/4 x 3/16 | 3/4 x 1/8 | 13.5 | 1 x 1/8 | 13.3 | U | .2800 | .1780 | .1230 | .915 | .700 | .544 | .440 | .364 | .308 | .262 | .228 | .175 | .133 | |
| | | | | | | D | .038 | .057 | .082 | .112 | .147 | .185 | .229 | .276 | .330 | .387 | .450 | .580 | .737 | |
| | | | | | | C | .2800 | .2225 | .1860 | .1600 | .1400 | .1225 | .1100 | .1000 | .925 | .850 | .800 | .700 | .600 | |
| 10 | 2 x 3/16 | 1 x 1/8 | 16.0 | 1 x 1/8 | 15.1 | U | .3650 | .2340 | .1618 | .1200 | .912 | .723 | .580 | .482 | .400 | .346 | .293 | .225 | .178 | |
| | | | | | | D | .032 | .050 | .072 | .099 | .128 | .163 | .201 | .243 | .289 | .341 | .397 | .516 | .651 | |
| | | | | | | C | .3650 | .2925 | .2425 | .2100 | .1825 | .1625 | .1450 | .1325 | .1200 | .1125 | .1025 | .900 | .800 | |
| 11 | 2 1/4 x 3/16 | 1 x 1/8 | 17.5 | 1 x 1/8 | 16.8 | U | .4650 | .2960 | .2065 | .1515 | .1150 | .912 | .740 | .608 | .516 | .438 | .379 | .288 | .228 | |
| | | | | | | D | .027 | .044 | .064 | .087 | .113 | .148 | .177 | .214 | .255 | .305 | .349 | .455 | .574 | |
| | | | | | | C | .4650 | .3700 | .3100 | .2650 | .2300 | .2050 | .1850 | .1675 | .1550 | .1425 | .1325 | .1150 | .1025 | |

| type | A-K G | | W/B-W/F B&F | | W/D-W/DF D&DF | | H-J | | R/W |
|------------------------|--------|----------|-------------|----------|---------------|----------|--------|----------|----------|
| straight bar thickness | 1/8 | 3/16 | 1/8 | 3/16 | 1/8 | 3/16 | 1/8 | 3/16 | 3/16 |
| panel widths in inches | 5 1/8 | 5 7/16 | 4 7/8 | 4 15/16 | 4 13/16 | 4 7/8 | 5 3/8 | 5 13/16 | 5 3/16 |
| | 6 3/8 | 6 3/4 | 6 1/16 | 6 1/8 | 5 3/4 | 5 13/16 | 6 1/4 | 6 3/4 | 7 1/16 |
| | 7 5/8 | 8 1/16 | 7 1/4 | 7 5/16 | 6 11/16 | 6 3/4 | 7 1/8 | 7 11/16 | 10 3/16 |
| | 8 7/8 | 9 9/16 | 8 7/16 | 8 1/2 | 7 5/8 | 7 11/16 | 8 | 8 5/8 | 12 11/16 |
| | 10 1/8 | 10 11/16 | 9 5/8 | 9 11/16 | 8 9/16 | 8 5/8 | 9 7/8 | 9 9/16 | 15 3/16 |
| | 11 3/8 | 12 | 10 13/16 | 10 7/8 | 9 1/2 | 9 3/16 | 9 3/4 | 10 1/2 | 17 11/16 |
| | 12 5/8 | 13 5/16 | 12 | 12 1/16 | 10 7/16 | 10 1/2 | 10 5/8 | 11 1/16 | 20 3/16 |
| | 13 7/8 | 14 5/8 | 13 3/16 | 13 1/4 | 11 3/8 | 11 1/16 | 11 1/2 | 12 3/8 | 22 11/16 |
| | 15 1/8 | 15 15/16 | 14 3/8 | 14 7/16 | 12 5/16 | 12 3/8 | 12 3/8 | 13 5/16 | 25 3/16 |
| | 16 3/8 | 17 1/4 | 15 3/16 | 15 5/8 | 13 1/4 | 13 3/16 | 13 1/4 | 14 1/4 | 27 11/16 |
| | 17 5/8 | 18 9/16 | 16 3/4 | 16 13/16 | 14 3/16 | 14 1/4 | 14 1/8 | 15 1/16 | 30 3/16 |
| | 18 7/8 | 19 7/8 | 17 1/16 | 18 | 15 1/8 | 15 3/16 | 15 | 16 1/8 | 32 11/16 |
| | 20 1/8 | 21 1/16 | 19 1/8 | 19 3/16 | 16 1/16 | 16 1/8 | 15 7/8 | 17 1/16 | 35 3/16 |
| | 21 3/8 | 22 1/2 | 20 5/16 | 20 3/8 | 17 | 17 1/16 | 16 3/4 | 18 | 37 11/16 |
| | 22 5/8 | 23 13/16 | 21 1/2 | 21 3/16 | 17 15/16 | 18 | 17 5/8 | 18 15/16 | 40 3/16 |
| | 23 7/8 | 25 1/8 | 22 11/16 | 22 3/4 | 18 7/8 | 18 15/16 | 18 1/2 | 19 7/8 | 42 11/16 |
| | 25 1/8 | 26 7/16 | 23 7/8 | 23 5/16 | 19 13/16 | 19 7/8 | 19 3/8 | 20 13/16 | 45 3/16 |
| | 26 3/8 | 27 3/4 | 25 1/16 | 25 5/8 | 20 3/4 | 20 13/16 | 20 1/4 | 21 3/4 | 47 11/16 |
| | 27 5/8 | 29 1/16 | 26 1/4 | 26 5/16 | 21 11/16 | 21 3/4 | 21 1/8 | 22 11/16 | 50 3/16 |
| | 28 7/8 | 30 3/8 | 27 1/16 | 27 1/2 | 22 5/8 | 22 11/16 | 22 | 23 5/8 | 52 11/16 |
| | 30 1/8 | 31 11/16 | 28 5/8 | 28 11/16 | 23 3/16 | 23 5/8 | 22 7/8 | 24 3/16 | 55 3/16 |
| | 31 3/8 | 33 | 29 9/16 | 29 7/8 | 24 1/2 | 24 3/16 | 23 3/4 | 25 1/2 | 57 11/16 |
| | 32 5/8 | 34 5/16 | 31 | 31 1/16 | 25 7/16 | 25 1/2 | 24 5/8 | 26 7/16 | 60 3/16 |
| | 33 7/8 | 35 5/8 | 32 3/16 | 32 1/4 | 26 3/8 | 26 1/2 | 25 1/2 | 27 3/8 | 62 11/16 |
| | 35 1/8 | 36 15/16 | 33 3/8 | 33 3/16 | 27 5/16 | 27 3/8 | 26 3/8 | 28 3/16 | 65 3/16 |
| | 36 3/8 | 38 1/4 | 34 3/16 | 34 5/8 | 28 1/4 | 28 5/16 | 27 1/4 | 29 1/4 | 67 11/16 |
| | 37 5/8 | 39 9/16 | 35 3/4 | 35 13/16 | 29 3/16 | 29 1/4 | 28 1/8 | 30 3/16 | 70 3/16 |

footnotes:

- U—Safe Uniform Load (in pounds per square foot)
C—Safe Concentrated Load (in pounds per foot of width)
D—Deflection (in inches) * Based on Fibre Stress of 16,000 pounds per square inch

Relative Loads of Other Types

- Types F, W/F, U and G: same as above Table
Types D, W/D, DF, W/DF and J: increase Table by 40 %
Type R/W: decrease Table by 50 %
*Type W/B made with 3/8 x 3/16 or 5/16 Twisted Cross Bars. Weights slightly less than those shown for Type B.

The Panel Width Table is only necessary where you prefer to select your own sizes. It is not required if you furnish sketch.

Borden Steel Floor Armor

Armor

BORDEN FLOOR ARMOR protects concrete, mastic or composition floor surfaces; prevents floor from cracking or breaking under loads. Used on any type heavy duty floor. Armor is made with bars of $\frac{1}{8}$ " thickness. All Borden Grating types are recommended for armor when smaller openings are required. (See page 3) The clear opening of the armor should be less than the face of the smallest truck wheel which will pass over it so the wheels will be in contact with the armor at all times. This protects the concrete fill. For best protection specify types shown in Table and add "As made by Borden Metal Products Co., Elizabeth, N. J."

Installation

Provisions are made to bolt conveniently sized panels end to end and side to side for overall continuous armor pattern. Concrete is vibrated through the armor and trowelled flush with the top surface.

BORDEN ARMOR is made of $1 \times \frac{1}{8}$ " steel bars on edge as shown. The through rods permit self-anchoring.

Specification

| type of Borden Armor | max. distance between bars, inches | weight, lbs. per sq. ft. | center tie rods in o.c. |
|----------------------------|--|--------------------------------|-------------------------------|
| AC | 1 $\frac{1}{2}$ | 6.2 | 14 |
| AD | 2 | 4.8 | 14 |
| AT | 2 $\frac{1}{4}$ | 4.4 | 14 |
| AL | 2 $\frac{1}{2}$ | 4.2 | 14 |
| AR | 3 | 3.6 | 14 |



DISTRICT REPRESENTATIVES

| | |
|--|---|
| Alldredge & Horblit..... | Denver, Colorado |
| Hunter & Havens, Inc..... | Bridgeport, Connecticut |
| Florida Distributors..... | Tampa, Jacksonville and Miami Beach, Fla. |
| E. A. Thornwell, Inc..... | Atlanta, Georgia |
| Power Plant Efficiency Company..... | Indianapolis, Indiana |
| French and Jones..... | Chicago, Illinois |
| Standard Supply & Hardware Co., Inc..... | New Orleans and Lake Charles, La. |
| M. W. Grant..... | Needham, Massachusetts |
| Paul W. Birmingham Company..... | Detroit, Michigan |
| James E. Payne Company..... | Lansing, Mich. |
| Bartley Sales Company..... | Minneapolis, Minnesota |
| Wilmar Steel Products Company..... | St. Louis, Missouri |
| Paul Le Veaux..... | Butte, Montana |
| Frank J. Spath..... | Albany, New York |
| Howard T. Cary..... | Buffalo, New York |
| Fred J. Ludwick..... | Syracuse, New York |
| Mechanical Equipment Company..... | Cleveland, Ohio |
| Alvan Tallmadge Company..... | Columbus, Ohio |
| Dwight F. Haigh & Associates..... | Toledo, Ohio |
| Gilmer Building Specialties..... | Portland, Oregon |
| Allied Materials Company..... | Pittsburgh, Pennsylvania |
| W. J. LaPierre Company..... | Signal Mountain, Tennessee |
| Standard Supply & Hardware Co., Inc..... | Houston, Texas |
| Structural Steel & Forge Company..... | Salt Lake City, Utah |
| Gilman and Green..... | Norfolk, Virginia |
| F. T. Crowe & Company, Inc..... | Seattle and Spokane, Washington |

TYPICAL INSTALLATIONS

| |
|--------------------------------------|
| Alabama Power Company |
| Aluminum Company of America |
| Bethlehem Steel Corp. |
| C. F. Braun & Company |
| Central Railroad of New Jersey |
| Consolidated Edison Company |
| Esso Standard Oil Company |
| Ford Motor Company |
| Foster Wheeler Corporation |
| General Electric Company |
| Georgia Power Company |
| Jersey Central Power & Light Company |
| M. W. Kellogg Company |
| Koppers Company |
| Kraft Foods Company |
| Libbey-Owens-Ford Glass Company |
| Merck & Company, Inc. |
| Monsanto Chemical Company |
| National Lead Company |
| City of New York |
| Pan American Airways |
| The Pennsylvania Railroad Company |
| The Procter & Gamble Mfg. Company |
| Shell Oil Company, Inc. |
| Standard Oil Company of California |
| Sun Oil Company |
| The Texas Company |
| Wright Aeronautical Corp. |

BORDEN METAL PRODUCTS CO.

890 GREEN LANE, ELIZABETH, N. J.

Southern Division: Leeds, Alabama

Main Plant: Union, N. J.